

# Specifications — SVDA 6 A MX Distribution Amplifier

## Video

Gain .....	Unity
Bandwidth .....	30 MHz (-3 dB)
Frequency response .....	< ± 0.1 dB @ 15 MHz
Differential phase error .....	0.03° at 3.58 MHz and 4.43 MHz
Differential gain error .....	0.05% at 3.58 MHz and 4.43 MHz
Crosstalk .....	-60 dB @ 3.58 MHz

## Video input

Number/signal type .....	1 S-video
Connectors .....	(1) 4-pin mini DIN female
Nominal level .....	1 Vp-p for Y of S-video 0.3 Vp-p for C of S-video
Minimum/maximum levels .....	Analog: 0.4 V to 1.4 Vp-p with no offset at unity gain
Impedance .....	75 ohms
Return loss .....	<-30 dB @ 5 MHz

## Video output

Number/signal type .....	6 S-video
Connectors .....	(6) 4-pin mini DIN
Nominal level .....	1 Vp-p for Y of S-video 0.3 Vp-p for C of S-video
Minimum/maximum levels .....	0.4 V to 1.4 Vp-p
Impedance .....	75 ohms
Return loss .....	<-30 dB @ 5 MHz
DC offset .....	±5 mV with input at 0 offset

## Sync

Standards .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
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## Audio

Gain .....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, ±0.05 dB
THD + Noise .....	0.03% @ 1 kHz at nominal level
S/N .....	>90 dB, output 21 dB, balanced, at maximum output (unweighted)
Stereo channel separation .....	>80 dB @ 1 kHz; >60 dB @ 20 kHz
CMRR .....	>75 dB @ 20 Hz to 20 kHz

## Audio input

Number/signal type .....	1, 2, or 4 stereo balanced (Hi Z or 600 ohms), unbalanced (Hi Z)
Connectors .....	(1, 2, or 4) 3.5 mm captive screw connector, 5 pole
Impedance .....	>25k ohms balanced, 50k ohms unbalanced, DC coupled
Maximum level .....	+24 dBu (balanced or unbalanced) at 1%THD+N

**NOTE** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

## Audio output

Number/signal type .....	6, 12, or 24 stereo, balanced/unbalanced
Connectors .....	(6, 12, or 24) 3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	±0.1 dB channel to channel
Maximum level (Hi-Z) .....	>+24 dBu, balanced or unbalanced at 1%THD+N
Maximum level (600 ohm) .....	>+15 dBm, balanced or unbalanced at 1%THD+N

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## General

Power .....	100 VAC to 240 VAC, 50/60 Hz, 10 watts, internal, autoswitchable
Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount .....	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 8.7" W x 9.4" D (1U high, half rack wide) 4.4 cm H x 22.1 cm W x 23.9 cm D (Depth excludes connectors.)
Product weight .....	2.5 lbs (1.1 kg)
Shipping weight .....	5 lbs (3 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL
Compliances .....	CE, FCC Class A
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** *All nominal levels are at ±10%.*

**NOTE** *Specifications are subject to change without notice.*

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